Harald Kucharek

List of Publications by Year
in descending order

33 papers	1,021 citations	516710 16 h-index	477307 29 g-index
33 all docs	33 docs citations	33 times ranked	1048 citing authors

#	Article	IF	Citations
1	Quasi-perpendicular Shock Structure and Processes. Space Science Reviews, 2005, 118, 161-203.	8.1	144
2	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. Space Science Reviews, 2018, 214, 1.	8.1	129
3	Quasi-parallel Shock Structure and Processes. Space Science Reviews, 2005, 118, 205-222.	8.1	119
4	Lunar backscatter and neutralization of the solar wind: First observations of neutral atoms from the Moon. Geophysical Research Letters, 2009, 36, .	4.0	108
5	A statistical analysis of properties of small transients in the solar wind 2007â€“2009: STEREO and Wind observations. Journal of Geophysical Research: Space Physics, 2014, 119, 689-708.	2.4	51
6	Multi-spacecraft observations of diffuse ions upstream of Earth's bow shock. Geophysical Research Letters, 2004, 31, .	4.0	50
7	Short large-amplitude magnetic structures and whistler wave precursors in a full-particle quasi-parallel shock simulation. Journal of Geophysical Research, 2003, 108, .	3.3	47
8	Diagnosing the Neutral Interstellar Gas Flow at 1 AU with IBEX-Lo. Space Science Reviews, 2009, 146, 149-172.	8.1	46
9	On the source and acceleration of energetic He+: A long-term observation with ACE/SEPICA. Journal of Geophysical Research, 2003, 108, .	3.3	43
10	Simultaneous observations of field-aligned beams and gyrating ions in the terrestrial foreshock. Journal of Geophysical Research, 2004, 109, .	3.3	41
11	The Apparent Layered Structure of the Heliospheric Current Sheet: Multi-Spacecraft Observations. Solar Physics, 2009, 259, 389-416.	2.5	28
12	Negative helium generation upon surface scattering: Application in space science. Journal of Applied Physics, 2008, 103, .	2.5	27
13	Interaction of the bow shock with a tangential discontinuity and solar wind density decrease: Observations of predicted fast mode waves and magnetosheath merging. Journal of Geophysical Research, 2007, 112, .	3.3	26
14	The Interstellar Boundary Explorer Science Operations Center. Space Science Reviews, 2009, 146, 207-234.	8.1	26
15	IBEX Backgrounds and Signal-to-Noise Ratio. Space Science Reviews, 2009, 146, 173-206.	8.1	26
16	Cluster at the Bow Shock: Introduction. Space Science Reviews, 2005, 118, 155-160.	8.1	20
17	Characteristics of Langmuir electric field waveforms and power spectra exhibiting nonlinear behavior in Earth's foreshock. Journal of Geophysical Research, 2010, 115, .	3.3	14
18	A quasilinear theory of ion â€œthermalizationâ€•and wave excitation downstream of Earth's bow shock. Journal of Geophysical Research, 2005, 110, .	3.3	13

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19	Magnetosheath for almostâ€aligned solar wind magnetic field and flow vectors: Wind observations across the dawnside magnetosheath at X = â˜'12 Re. Journal of Geophysical Research, 2010, 115, .	3.3	11
20	Ion thermalization and wave excitation downstream of Earth's bow shock: A theory for Cluster observations of He²⁺ acceleration. Journal of Geophysical Research, 2007, 112, .	3.3	10
21	Energy Conversion Within Current Sheets in the Earth's Quasiâ€Parallel Magnetosheath. Geophysical Research Letters, 2021, 48, e2020GL091859.	4.0	10
22	He Pickup Ions in the Inner Heliosphereâ€"Diagnostics of the Local Interstellar Gas and of Interplanetary Conditions. AIP Conference Proceedings, 2010, , .	0.4	9
23	Observing the prevalence of thin current sheets downstream of Earth's bow shock. Physics of Plasmas, 2021, 28, .	1.9	9
24	Cluster at the Bow Shock: Status and Outlook. Space Science Reviews, 2005, 118, 223-227.	8.1	4
25	MMS Observations of Reconnection at Dayside Magnetopause Crossings During Transitions of the Solar Wind to Subâ€AlfvÃ©nic Flow. Journal of Geophysical Research: Space Physics, 2017, 122, 9934-9951.	2.4	3
26	Oscillation of electron counts at 500 eV downstream of the quasiâ€perpendicular bow shock. Journal of Geophysical Research, 2008, 113, .	3.3	2
27	Hybrid Simulations for Pickup Ion Distributions at the Termination Shock. AIP Conference Proceedings, 2010, , .	0.4	2
28	Timeâ€ofâ€flight mass spectrographsâ€"From ions to neutral atoms. Journal of Geophysical Research: Space Physics, 2016, 121, 11,647.	2.4	2
29	The electric potential at the Earthâ€™s quasi-parallel bow shock: Initial Cluster results. AIP Conference Proceedings, 2005, , .	0.4	1
30	Long-distance Correlations of Interplanetary Parameters: A Case Study with HELIOS. AIP Conference Proceedings, 2003, , .	0.4	0
31	On the Origin of Inner Source Pickup Ions. , 2010, , .		0
32	A comparative analysis of terrestrial and planetary bow shocks. , 2011, , .		0
33	Geometrical effects of microchannel plates: Grazing incidence operation of time-of-flight mass spectrometry and comparison to standard carbon foil. Review of Scientific Instruments, 2020, 91, 113107.	1.3	0